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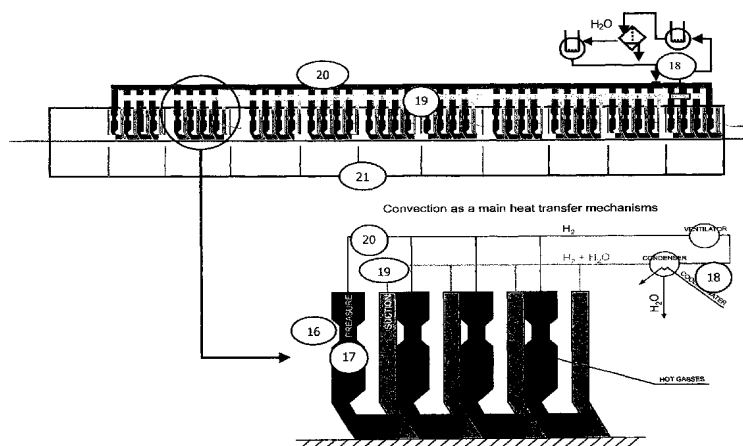
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[Continued on next page]

(54) Title: AN APPARATUS AND PROCESS FOR THE DRY REMOVAL OF THE SCALE FOUND ON THE SURFACE OF METAL PRODUCTS



(57) Abstract: An apparatus and process for the dry removal of the scale from the surface of a metal product comprising at least one heating area that does not reduce the specific surface of the material to be treated and does not cause oxidation, at least one reducing area for performing the reaction between a specific reducing gas (normally hydrogen) and at least the scale, at least one cooling area for cooling the metal product, means for heating the metal product, means for heating the reducing gas, means for controlling the fluid dynamics of the boundary layer produced by the flow of said reducing gas over the surface of the metal product, means for removing the reaction products from the reducing gas after the reaction, means for cooling the metal product, and means for removing the reaction products from the treated surface of the metal product.

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